Understanding Delays in Fire Program Analysis (FPA) Initial Response Simulation (IRS) Module

Topic:

Fire resource delays in the Initial Response Simulator (IRS) Module.

Purpose

This paper defines delays and describes their functionality within the IRS Module.

Background

The time before fire resources can produce fireline influences whether initial response resources can successfully contain modeled fire events. The IRS applies delays to mimic real life situations where fire resources are unavailable to produce fireline after a fire is reported. The Post Dispatch Delays apply to fire resources dispatched to a modeled fire event and dictate when a resource is available for dispatch to another modeled fire event.

FPUs enter all delay times into FPA in minutes.

Discussion – Delays

Delay	Description
Walk-In Delay	Applies to resources dispatched to a modeled fire event that produce fireline. The FPU planner enters (by fire resource producer type per FMU/FWA) the amount of time the resource will to walk in to a modeled fire event. The takes into account the travel time to the modeled fire event and the FPU planner adds the amount of time the resource will need to walk into the fire event.
Miscellaneous Delays	Applies to the first resource on the fire event for size up or any other possible delay the FPU may have for their specific area.

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Delay	Description
Callback Delay	The time it takes off-duty fire resources to return to their dispatch locations and respond to a modeled fire event. FPU planners may edit this delay for each dispatch location. The system default is zero (0) minutes.
Reload Delay	Applies to fire resources returning to the closest water source or reload location (with water or retardant), after dropping a previous payload at a fire event. Reload Delays apply to Water Scoopers, Single Engine Airtankers (SEATs), Engines, Helicopters, and Large Airtankers. FPUs enter all Reload Delays, except the Large Airtanker Reload Delay, for each FMU/FWA. The IRS model calculates the Large Airtanker delay. See Understanding Fixed-Wing Aircraft Delivery of Water and/or Fire Retardant in the Initial Response Simulation Module for further information

Table 1: Post Production Delays

See Also

- Understanding Preproduction Delays in Fire Program Analysis (FPA) Initial Response Simulation (IRS) Module
- Understanding Helicopter Use in Fire Program Analysis (FPA) Initial Response Simulation (IRS) Module
- Understanding Smokejumper Deployment in Fire Program Analysis (FPA) Initial Response Simulation Module (IRS)
- Understanding Dozers, Tractor Plows, and Airboats in Fire Program Analysis Initial Response Simulation Module